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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/661,683	09/15/2003	Kyota Miyazaki	03500.015750.1	7357

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EXAMINER

GORDON, RAQUEL YVETTE

ART UNIT	PAPER NUMBER
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2853

DATE MAILED: 09/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No. 10/661,683	Applicant(s) MIYAZAKI ET AL.	
	Examiner Raquel Y. Gordon	Art Unit 2853	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 September 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 15 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☒ Certified copies of the priority documents have been received in Application No. 09/942589.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>9/15/2003</u> . | 6) <input type="checkbox"/> Other: _____ |

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Ito et al. (US 2004/0165028 A1). Ito et al. teach every element of the instant invention including:

1. An ink jet recording head comprising:

a recording element base plate (14) provided with a plurality of recording elements (20) for discharging recording liquid (¶ 0086), and a plurality of supply ports (12b, 12a, 19b, 19a, 18, and 17) arranged on a face opposite to a surface having said recording elements thereon for supplying the recording liquid to said recording elements (¶ 0064);

at least one recording element unit (20) having a portion for incorporating said recording element base plate and a wiring base plate (23, 30, and 31) to apply electric pulses to said recording element base plate for discharging the recording liquid when connected with said recording element base plate (see fig 16, and ¶ 0083); and

a supporting member (10) for holding and fixing said recording element base plate,

wherein said supporting member (10) is provided with a plurality of supply flow paths (12b, 12a, 19b, 18, 19a, 17) for supplying the recording liquid to said supply ports

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of said recording element base plate (14), respectively, and a width of each of said supply flow paths is formed so as to be smaller than an opening width of an inlet portion of each of said supply ports (see also ¶ 0064);

2. An ink jet recording head according to Claim 1, wherein each of said supply ports of said recording element base plate is formed in a tapered fashion so as to make a width thereof decrease gradually from the inlet portion thereof to an outlet portion thereof (See fig 14. For example, the width of element 18 is less than the width of element 12b in the direction of the supply of ink. See also, ¶ 0064);

3. An ink jet recording head according to Claim 1, wherein said recording element base plate and said supporting member are bonded together by use of a bonding agent (¶ 0104);

4. An ink jet recording head according to Claim 3, wherein steps formed between respective ones of said supply flow paths and said supply ports are covered by said the bonding agent (¶ 0104);

5. An inkjet recording head according to Claim 3, wherein said the bonding agent has a property of being hardened by irradiation of ultraviolet rays and a property of being hardened by heating (¶ 0104);

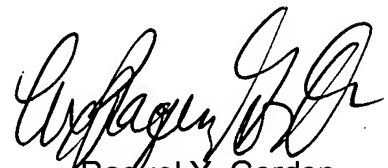
6. An ink jet recording head according to Claim 5, wherein a discharge port plate arranged to face said recording element base plate for discharging the recording liquid is formed by from a transparent material (§ 0084-0086);
7. An ink jet recording head according to Claim 1, further comprising a supporting plate (21a-21g, 22) arranged between said wiring base plate (23) and said supporting member (10) to hold and fix said wiring base plate (§ 0065).

Contact Information

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Raquel Y. Gordon, whose telephone number is (571) 272-2145. The Examiner can normally be reached on M Tu Th and F 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Stephen Meier can be reached on (571) 272-2149. A fax number is available upon request.

Any inquiry of a general nature or relating to the status of this application or proceeding may be directed to the Examiner or Supervisor.



Raquel Y. Gordon
Primary Examiner
Art Unit 2853
September 6, 2004